

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1025	(implantable WITH medical WITH device) AND (unipolar AND (ring NEAR electrode))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/12/14 12:03
L2	491	(implantable WITH medical WITH device) AND (unipolar AND (ring NEAR electrode))	USPAT	OR	ON	2006/12/14 12:04
L3	445	(implantable WITH medical WITH device) AND (unipolar AND (ring NEAR electrode)) AND stimulat\$4	USPAT	OR	ON	2006/12/14 12:11
L4	3	((pac\$3 OR stimulat\$4) AND sens\$4) NEAR during NEAR (refractory NEAR period)	USPAT	OR	ON	2006/12/14 12:22
L5	21	(pac\$3 OR stimulat\$4) NEAR during NEAR (refractory NEAR period)	USPAT	OR	ON	2006/12/14 12:25
L6	82	extend\$4 NEAR (refractory NEAR period)	USPAT	OR	ON	2006/12/14 12:25
S1	13	"4712555".pn. "4788980".pn. "4940052".pn. "4944298".pn. "5178149".pn. "5417715".pn. "5476483".pn. "5738096".pn. "6009349".pn. "6066094".pn. "6077236".pn. "6129744".pn. "6278894".pn.	USPAT	OR	OFF	2006/02/25 13:34
S2	3	"6285898".pn. "6336903".pn. "6421565".pn.	USPAT	OR	OFF	2006/02/26 12:30
S3	0	US2002/0002389 US2002/0087089 US2002/0115939	USPAT	OR	OFF	2006/02/25 13:36
S4	1	US2002/0002389 US2002/0087089 US2002/0115939	US-PGPUB; USPAT	OR	OFF	2006/02/25 13:39
S5	0	US20020002389 US20020087089 US20020115939	US-PGPUB; USPAT	OR	OFF	2006/02/25 13:39
S6	0	US2002/0002389	US-PGPUB; USPAT	OR	OFF	2006/02/25 13:40
S7	1036	US2002 "0002389"	US-PGPUB; USPAT	OR	OFF	2006/02/25 13:40
S8	0	"US2002/0002389"	US-PGPUB; USPAT	OR	OFF	2006/02/25 13:40
S9	415	607/17.ccls.	US-PGPUB; USPAT	OR	OFF	2006/02/25 13:40
S10	426	607/17.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/02/26 14:57

## EAST Search History

S11	256	cardiac WITH geometry	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/19 09:59
S12	135085	sensing WITH (potential OR signal)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/02/25 14:05
S13	78741	S12 AND electrical	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/02/25 14:05
S14	23993	determine WITH parameter	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/02/25 14:05
S15	1	S11 AND S13 AND S14	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/02/25 14:06
S16	25	S11 AND S13	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/02/25 14:10
S17	14	S16 AND parameter	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/02/25 14:06
S18	3	S11 AND S14	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/02/25 14:11
S19	73	S11 AND parameter	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/02/25 14:11
S20	21	("20020002389"   "20020087089"   "20020115939"   "4712555"   "4788980"   "4940052"   "4944298"   "5178149"   "5417715"   "5476483"   "5480412"   "5549650"   "5738096"   "6009349"   "6066094"   "6077236"   "6129744"   "6278894"   "6285898"   "6336903"   "6421565").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/25 14:26
S21	1	"6892091".pn.	USPAT	OR	OFF	2006/02/26 12:30

## EAST Search History

S22	29	("4649924"   "4911174"   "5265602"   "5297549"   "5311866"   "5331966"   "5385146"   "5391199"   "5450846"   "5487391"   "5546951"   "5553611"   "5582609"   "5595183"   "5662108"   "5676153"   "5718241"   "5738096"   "5836874"   "5848972"   "5897529"   "5913820"   "5938602"   "5938603"   "5964757"   "6104944"   "6171306"   "6272371"   "RE35880").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/26 12:30
S23	89	("4304239"   "4444195"   "4522212"   "4573473"   "4628937"   "4649924"   "4699147"   "4777955"   "4899750"   "4922912"   "4940064"   "5000190"   "5025786").PN. OR ("5297549").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/26 12:33
S24	256	cardiac WITH geometry	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/02/26 14:28
S25	84	S24 AND implantable	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/02/26 14:28
S26	1570	cardiac WITH (map OR mapping)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/02/26 14:28
S27	293	S26 AND implantable	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/02/26 14:29
S28	164	S27 AND sense	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/02/26 14:29
S29	230	S27 AND @ad<="20030701"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/02/26 14:29
S30	71	(implantable WITH medical WITH device) AND (cardiac WITH (map OR mapping OR geometry))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/26 16:14

## EAST Search History

S31	1	"5662108".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/26 15:35
S32	1	"6285898".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/26 15:35
S33	1	"6144881".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/26 15:35
S34	1184	(implantable WITH medical WITH device) AND (electrode NEAR (case OR can))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/26 16:14
S35	1105	S34 AND lead	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/26 16:15
S36	359	S35 AND ("right ventricle" AND "left ventricle")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/26 16:18
S37	24	S36 AND mapping	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/26 16:23
S38	41	S36 AND geometry	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/26 16:23
S39	614	cardiac WITH (refractory NEAR period)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/27 08:39
S41	526	S39 AND (pac\$4 OR stimula\$5 and sens\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/27 08:42
S42	515	S41 AND during	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/27 08:40
S43	444	S42 AND @ad<="20030701"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/27 08:41

## EAST Search History

S44	155	(pac\$4 OR stimula\$5 and sens\$4) WITH during SAME (cardiac WITH (refractory NEAR period))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/27 11:21
S45	1	WO99/07285.ptpn. WO01/87410. ptpn. WO01/87410.ptpn. WO02/053228.ptpn.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/27 11:22
S46	1	WO99/07285.ptpn. WO01/87410A2. ptpn. WO01/87410A3.ptpn. WO02/053228.ptpn.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/27 11:22
S47	0	WO01/87410.ptpn. WO02/53228. ptpn.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/27 11:26
S48	1	10/612770	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/27 12:55
S49	0	"10612770"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/27 12:55
S50	0	10/612770.app.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/27 12:56
S51	269	kroll-mark-w.in.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/27 13:01
S52	14	kroll-mark-w.in. AND geometry	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/27 13:14
S53	1	"6738669".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/27 13:14
S54	77	cardiac NEAR geometry	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/18 11:05
S55	61	cardiac NEAR geometry	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/07/19 10:00

## EAST Search History

S56	21	("20020002389"   "20020087089"   "20020115939"   "4712555"   "4788980"   "4940052"   "4944298"   "5178149"   "5417715"   "5476483"   "5480412"   "5549650"   "5738096"   "6009349"   "6066094"   "6077236"   "6129744"   "6278894"   "6285898"   "6336903"   "6421565").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/19 12:58
S57	3	("5480412" "5549650" "6009349").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/19 13:36
S58	0	S57 AND (geometry OR geometric)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/19 13:00
S59	110	geometric NEAR mapping	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/19 13:37
S60	0	S59 AND cardiac	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/19 13:37
S61	5	S59 AND heart	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/19 13:38
S62	23	S55 AND sensing	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/19 13:46
S63	12	S62 AND deliver	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/19 13:56
S64	1	"7003348".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/19 13:56
S65	21	("20020002389"   "20020087089"   "20020115939"   "4712555"   "4788980"   "4940052"   "4944298"   "5178149"   "5417715"   "5476483"   "5480412"   "5549650"   "5738096"   "6009349"   "6066094"   "6077236"   "6129744"   "6278894"   "6285898"   "6336903"   "6421565").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/19 13:56

## EAST Search History

S66	21	("20020002389"   "20020087089"   "20020115939"   "4712555"   "4788980"   "4940052"   "4944298"   "5178149"   "5417715"   "5476483"   "5480412"   "5549650"   "5738096"   "6009349"   "6066094"   "6077236"   "6129744"   "6278894"   "6285898"   "6336903"   "6421565").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/19 14:15
S67	21	("20020002389"   "20020087089"   "20020115939"   "4712555"   "4788980"   "4940052"   "4944298"   "5178149"   "5417715"   "5476483"   "5480412"   "5549650"   "5738096"   "6009349"   "6066094"   "6077236"   "6129744"   "6278894"   "6285898"   "6336903"   "6421565").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/19 14:17
S68	2	("6070100" "6278894").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/19 14:18
S69	2	("5154171" "6278894").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/19 14:21
S70	2	("6405087" "6473648").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/19 16:14
S71	1	"6738669".PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/19 17:20
S72	92564	(cardiac OR myocardial)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/19 17:21
S73	561	tissue NEAR displacement	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/19 17:21
S74	179	S72 AND S73	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/19 17:21
S75	1	"5662108".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/20 10:52
S76	182	cardiac NEAR dimension	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/20 10:52

## EAST Search History

S77	1	change WITH S76	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/20 10:52
S78	0	sense WITH S76	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/20 10:52
S79	0	sensing WITH S76	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/20 10:52
S80	83	cardiac NEAR geometry	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/12/13 09:20
S81	21	("20020002389"   "20020087089"   "20020115939"   "4712555"   "4788980"   "4940052"   "4944298"   "5178149"   "5417715"   "5476483"   "5480412"   "5549650"   "5738096"   "6009349"   "6066094"   "6077236"   "6129744"   "6278894"   "6285898"   "6336903"   "6421565").PN. OR ("7003348").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 09:58
S82	83	cardiac NEAR geometry	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/12/13 09:58
S83	0	"L21" AND S82	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 09:58
S84	21	("20020002389"   "20020087089"   "20020115939"   "4712555"   "4788980"   "4940052"   "4944298"   "5178149"   "5417715"   "5476483"   "5480412"   "5549650"   "5738096"   "6009349"   "6066094"   "6077236"   "6129744"   "6278894"   "6285898"   "6336903"   "6421565").PN. OR ("7003348").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 09:59
S85	0	S81 AND S82	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 10:39
S86	1	"6285898".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 10:39



## EAST Search History

S87	49	("4921482"   "5195968"   "5211165"   "5222501"   "5285788"   "5368564"   "5368592"   "5373849"   "5383923"   "5391199"   "5403356"   "5404297"   "5431168"   "5433198"   "5443489"   "5450846"   "5465717"   "5471982"   "5487391"   "5555883"   "5577502"   "5588432"   "5592939"   "5601084"   "5738096"   "Re31097").PN. OR ("6285898"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 10:39
S88	5	("5573012"   "6272371"   "6285898"   "6298269"   "6299583").PN. OR ("6976967").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 11:12
S89	1033	sens\$4 AND (stimulat\$4 OR deliver\$4) AND (during WITH (refractory NEAR period))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 11:24
S90	862	S89 AND pacemaker	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 11:24
S91	443	(sens\$4 AND (stimulat\$4 OR deliver\$4)) SAME (during WITH (refractory NEAR period))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 11:24
S92	410	S91 AND pacemaker	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 11:25